



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/591,081	08/30/2006	Keiji Nishimoto	50478-3800	7834
53044 7590 04/24/2009 SNELL & WILMER L.L.P. (Panasonic) 600 ANTON BOULEVARD SUITE 1400 COSTA MESA, CA 92626				
EXAMINER				
TRUONG, BAO Q				
ART UNIT		PAPER NUMBER		
2875				
MAIL DATE		DELIVERY MODE		
04/24/2009		PAPER		

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.

10/591,081

Applicant(s)

NISHIMOTO ET AL.

Examiner

BAO Q. TRUONG

Art Unit

2875

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 24 March 2009.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-5 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-5 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☒ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO/SF/ICE)
Paper No(s)/Mail Date _____
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date _____
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: _____

DETAILED ACTION

Priority

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. Claims 1-5 are rejected under 35 U.S.C. 102(b) as being anticipated by Suehiro et al. [US 2002/0001192 A1].

Regarding claim 1, Suehiro et al. discloses an LED mounting module for having LED devices which are to be mounted thereon, the LED mounting module comprising: a substrate [2, 2a, 6c1, 6b1] including at least one insulation board [2] made of an insulation material and a wiring pattern [6C1, 6B1] disposed to cover at least part of a main surface [2a] of the insulation board; and a reflecting member [4] made of resin material and having a reflecting hole [see figure 7B] in a position corresponding to each LED devices [3B] which is to be mounted on one of main surfaces [2a] of the substrate, wherein the reflecting member [4] has a lower surface part [above 6b1, 6c1] of which is directly adhered to part of the wiring pattern opposing the part of the lower surface, and

a remainder of which is directly adhered to part of the insulation board [2] opposing the remainder of the lower surface (figure 7B, paragraphs 0011, 0041, 0043, 0044, 0050, 0055 0068-0070).

Regarding claim 2, Suehiro et al. discloses a resin material forming the insulation board contains a same resin as the resin material forming the reflecting member (paragraph 0043, 0050).

Regarding claim 3, Suehiro et al. discloses the resin material is a thermosetting resin material principally containing an epoxy resin (paragraph 0043, 0050).

Regarding claim 4, Suehiro et al. discloses the wiring pattern [2a, 6b1, 6c1] is a surface pattern on which each LED device [3B] is to be mounted, and the surface pattern excluding an area corresponding to the reflecting hole is entirely covered with the reflecting member [4] (figure 7B).

Regarding claim 5, Suehiro et al. discloses the wiring pattern has another pattern [2c, 6B2, 12, 6C3] being not formed on the main surface [2a] of the insulation board, and a via hole [11, 10B, 9R] electrically connecting the other pattern and the surface pattern is formed within the insulation board in an area corresponding to the lower surface of the reflecting member [4] (figure 7B).

Response to Amendment

4. Applicant's amendments and arguments with respect to claims 1-5 have been considered but are moot in view of the new ground(s) of rejection. A new reference, Suehiro et al. [US 2002/0001192 A1] is applied.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to BAO Q. TRUONG whose telephone number is (571)272-2383. The examiner can normally be reached on Monday-Friday (8:00 AM - 4:00 PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sandra L. O'Shea can be reached on (571) 272-2378. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Bao Q. Truong/
Primary Examiner
Art Unit 2875